

Amendments to the Specification:

Page 1, before line 1, please insert the headings:

BACKGROUND OF THE INVENTION

1. Technical Field

Page 1, between line 8 and 9, please insert the heading:

2. Related Art

Page 4, between line 21 and 22, please insert the heading:

BRIEF DESCRIPTION OF THE INVENTION

Page 4, please replace the paragraph which starts line 22 with the following amended paragraph:

~~In order to alleviate all or part of the drawbacks of the aforesaid prior art, a~~ A first aspect of the invention relates to a method of training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a ~~mobile terminal~~ first equipment of a radiocommunication system comprising a fixed network and mobile terminals, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols. Embodiments of the ~~The~~ method ~~comprises~~ comprise the steps ~~consisting in~~ of:

- a) generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) transmitting the linearization training sequence by means of the radiofrequency transmitter in at least certain of the bursts transmitted by the latter;

c) comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train saidthe linearization device.

Page 5, please replace the paragraph which starts line 8 with the following amended paragraph:

~~Advantageously~~In one embodiment, in step b), the linearization training sequence is included in a sequence of symbols that is further designed to allow the adjusting of parameters of the transmission chain between said first equipment and a second equipment of the radiocommunication system with which said first equipment communicates.

Page 6, please replace the paragraph which starts line 4 with the following amended paragraph:

~~According to an advantage~~In one embodiment, the value of the symbols of the AGC sequence is not subject to any constraint (the AGC sequence must simply be known to the fixed network). There is therefore complete freedom to choose the symbols of the sequence, or at least some of the symbols of the sequence, in such a way that these symbols form a satisfactory training sequence.

Page 6, please replace the paragraph which starts line 12 with the following amended paragraph:

~~According to another advantage~~In further embodiments, the recurrence of the AGC sequence is adapted to the training requirements of the RF amplifier linearization device. Specifically, the AGC sequence is in general transmitted at the start of a frame, then upon a change of logical channel, upon a change of RF frequency and/or upon a change of power rating. Now, it is substantially at those moments also that there is a need for the linearization training sequence to be transmitted.

Page 6, please replace the paragraph which starts line 22 with the following amended paragraph:

A second aspect of the invention relates to a device for training a device for linearizing a radiofrequency amplifier which is included within a radiofrequency transmitter of a first equipment of a radiocommunication system, which transmitter is adapted for transmitting bursts according to a determined frame structure, each burst comprising symbols belonging to a determined alphabet of symbols. The device comprises:

- a) means for generating a linearization training sequence comprising a determined number N of symbols, where N is a determined integer;
- b) means for transmitting the linearization training sequence by means of the transmitter in at least certain of the bursts transmitted by the latter;
- c) means for comparing the linearization training sequence transmitted with the linearization training sequence generated so as to train saidthe linearization device.

Page 7, please replace the paragraph which starts line 19 with the following amended paragraph:

Stated otherwise, said meansthe for transmitting are adapted to transmit the training sequence inside a time interval reserved within the frame structure for the transmission of an AGC sequence, and the training sequence at the same time ensures the role of such an AGC sequence.

Page 8, at line 3 and 4, please insert the heading:

BRIEF DESCRIPTION OF THE DRAWINGS.

At page 8, please delete the paragraph at lines 4 through 8.

Page 8, between line 21 and 22, please insert the headings:

DESCRIPTION OF PREFERRED EMBODIMENTS.

Page 14, please replace the paragraph which starts line 21 with the following amended paragraph:

~~Advantageously, part~~Part of these isolated bursts is used to allow the device 34 for training the radiofrequency transmitter 32 to execute an algorithm for training the linearization device 33. In the example of Figure 3, the linearization sequence is thus included in the aforesaid AGC sequence.

Page 15, please replace the paragraph which starts line 21 with the following amended paragraph:

~~According to another advantage, the~~The AGC sequence is situated as near as possible to the signal power ramping-up, for example, just after this ramping. In this way, the training of the linearization device may be carried out as quickly as possible and thus disturb transmission for the least possible time.